

**Fig. 1**

The diagram illustrates a control system for a Switching Circuit (10) driving an SR Motor (3). The system includes a Battery Voltage Detecting Circuit (14) connected to a battery (4). The Battery Voltage Detecting Circuit (14) outputs a signal  $V_b$  to an Accelerator Sensor (12) and a Microcomputer (18). The Accelerator Sensor (12) outputs a signal  $\alpha$  to the Microcomputer (18). The Microcomputer (18) is connected to a Memory (15) and a Chopper Circuit (8). The Chopper Circuit (8) outputs a signal to a Driving Circuit (9), which in turn outputs a signal to the Switching Circuit (10). The Switching Circuit (10) outputs a signal to the SR Motor (3). The SR Motor (3) is connected to a Resolver (16), which outputs a signal to the Microcomputer (18). The Microcomputer (18) also outputs a signal  $N_m$  to a Current Comparison Circuit (11), which outputs a signal to the Chopper Circuit (8). The Chopper Circuit (8) is also connected to a Microcomputer (18) via a bidirectional connection (7). The Microcomputer (18) is also connected to a Memory (15) via a bidirectional connection (17). The Microcomputer (18) is also connected to a Memory (15) via a bidirectional connection (17). The Microcomputer (18) is also connected to a Memory (15) via a bidirectional connection (17).

Fig. 2

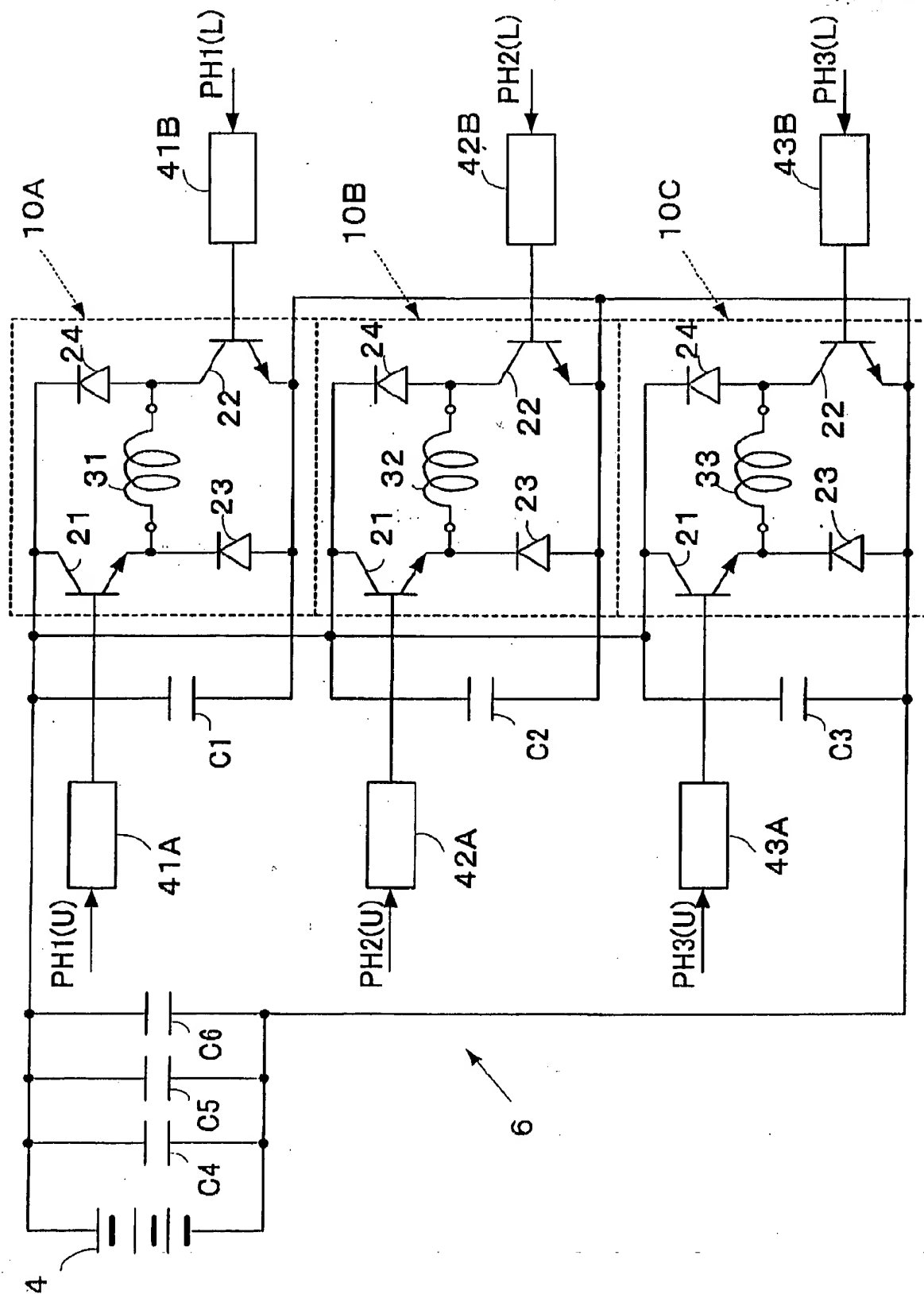


Fig. 5

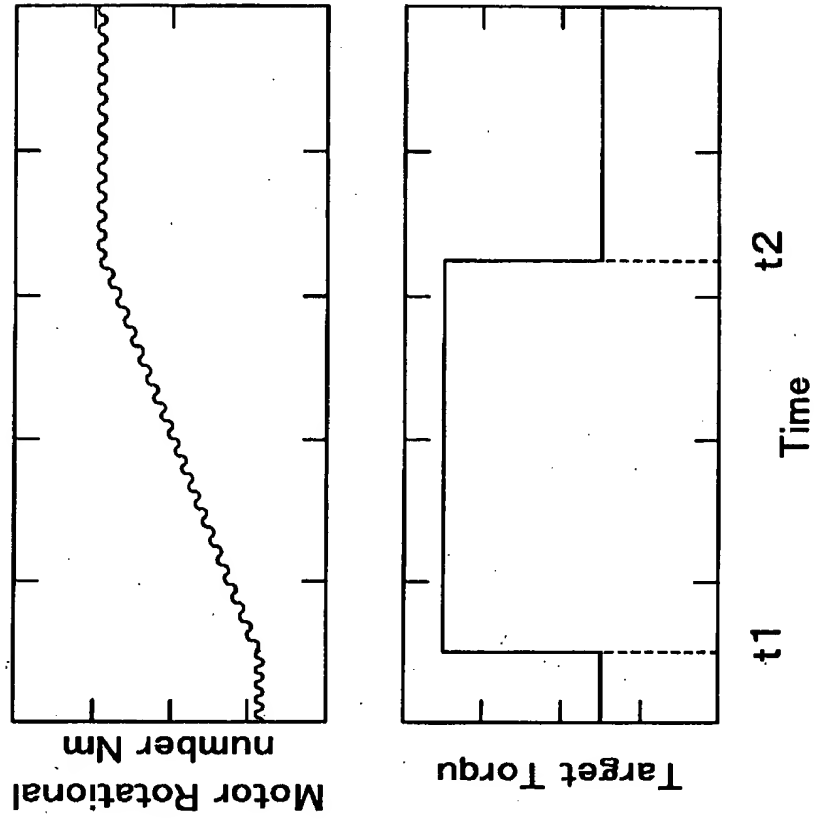


Fig. 3

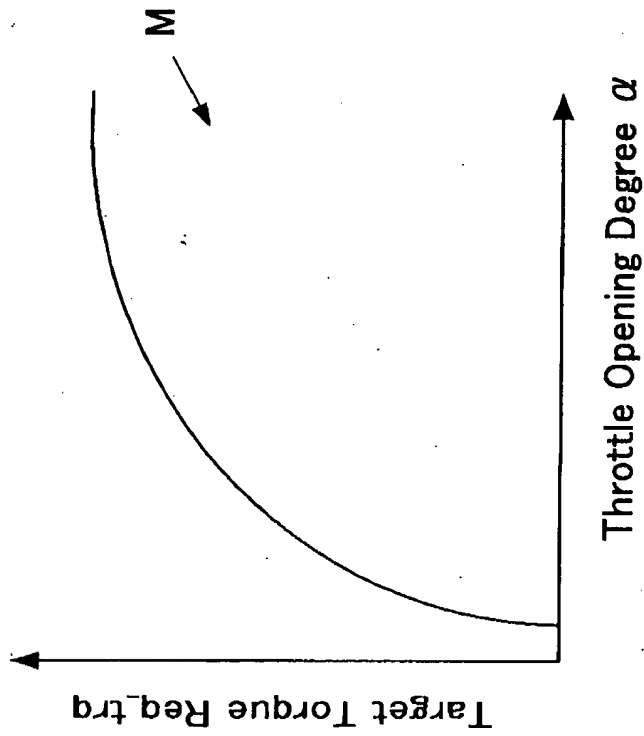


Fig. 4

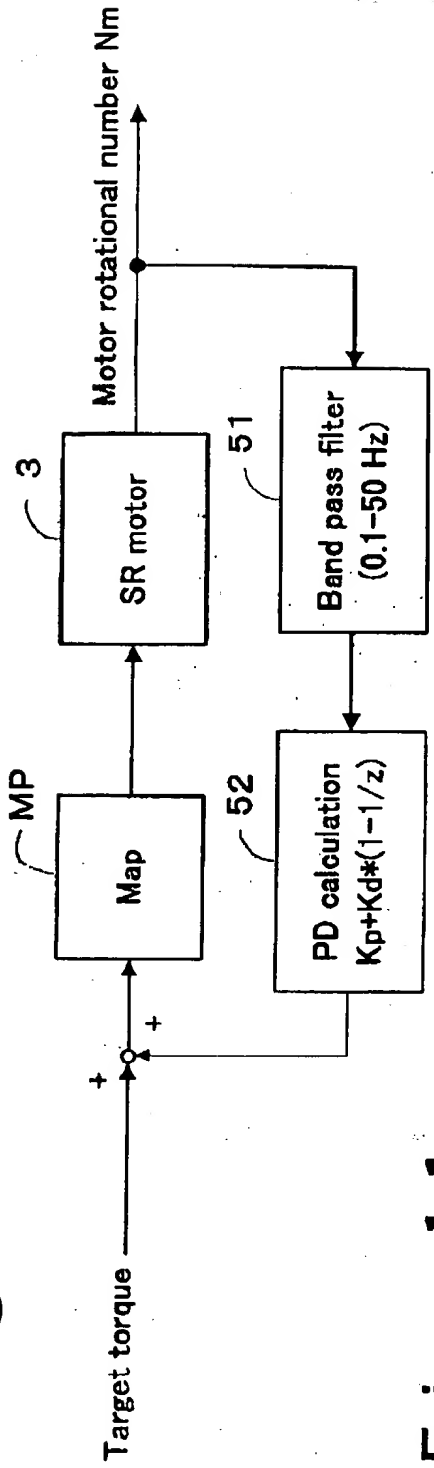


Fig. 11

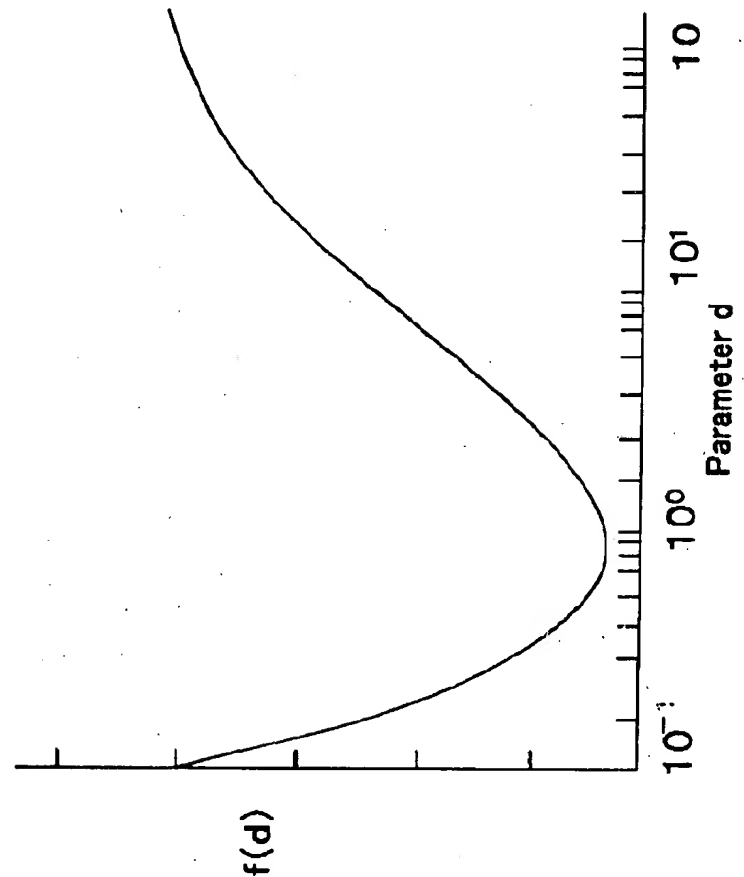


Fig. 6

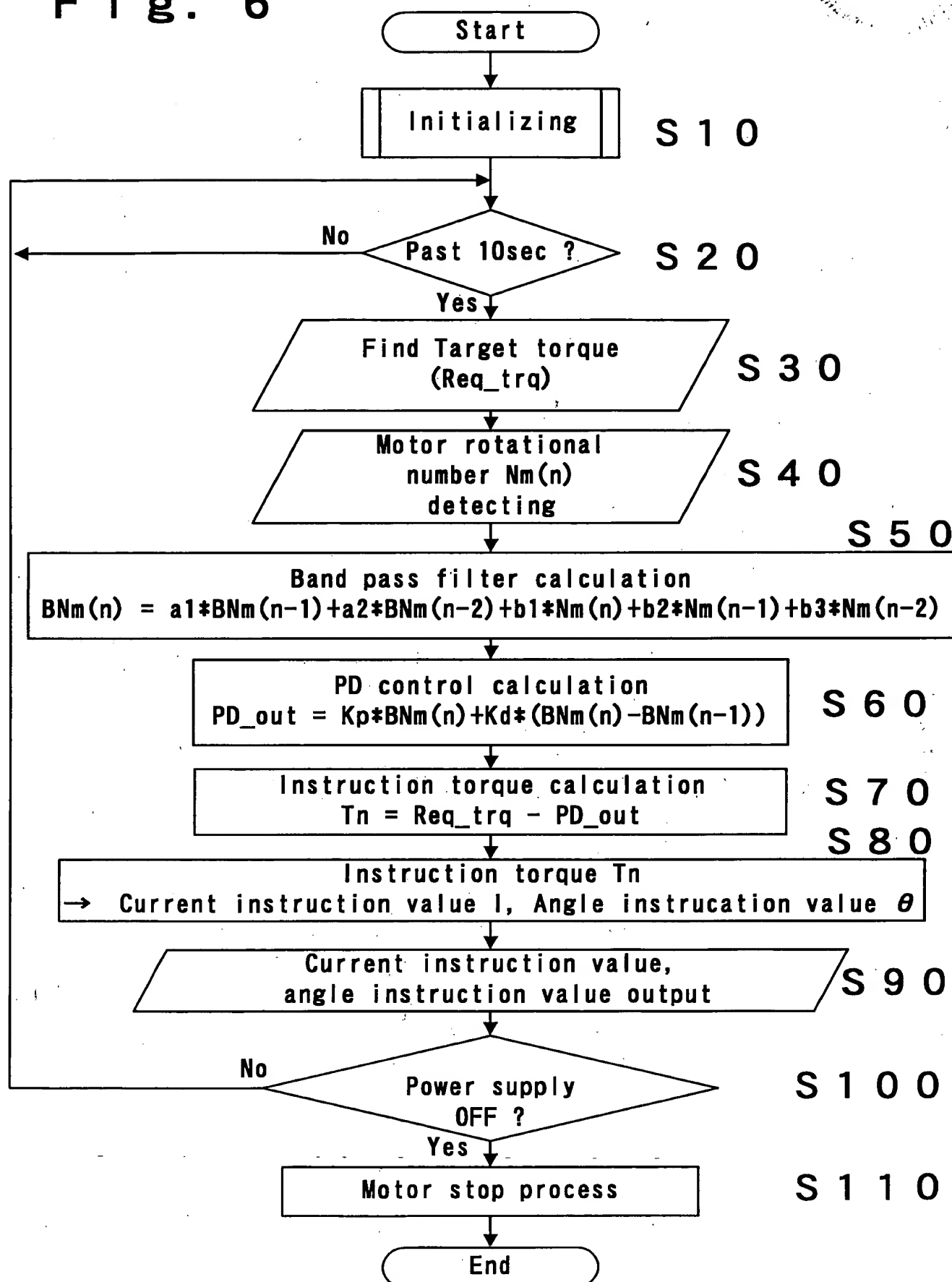


Fig. 7

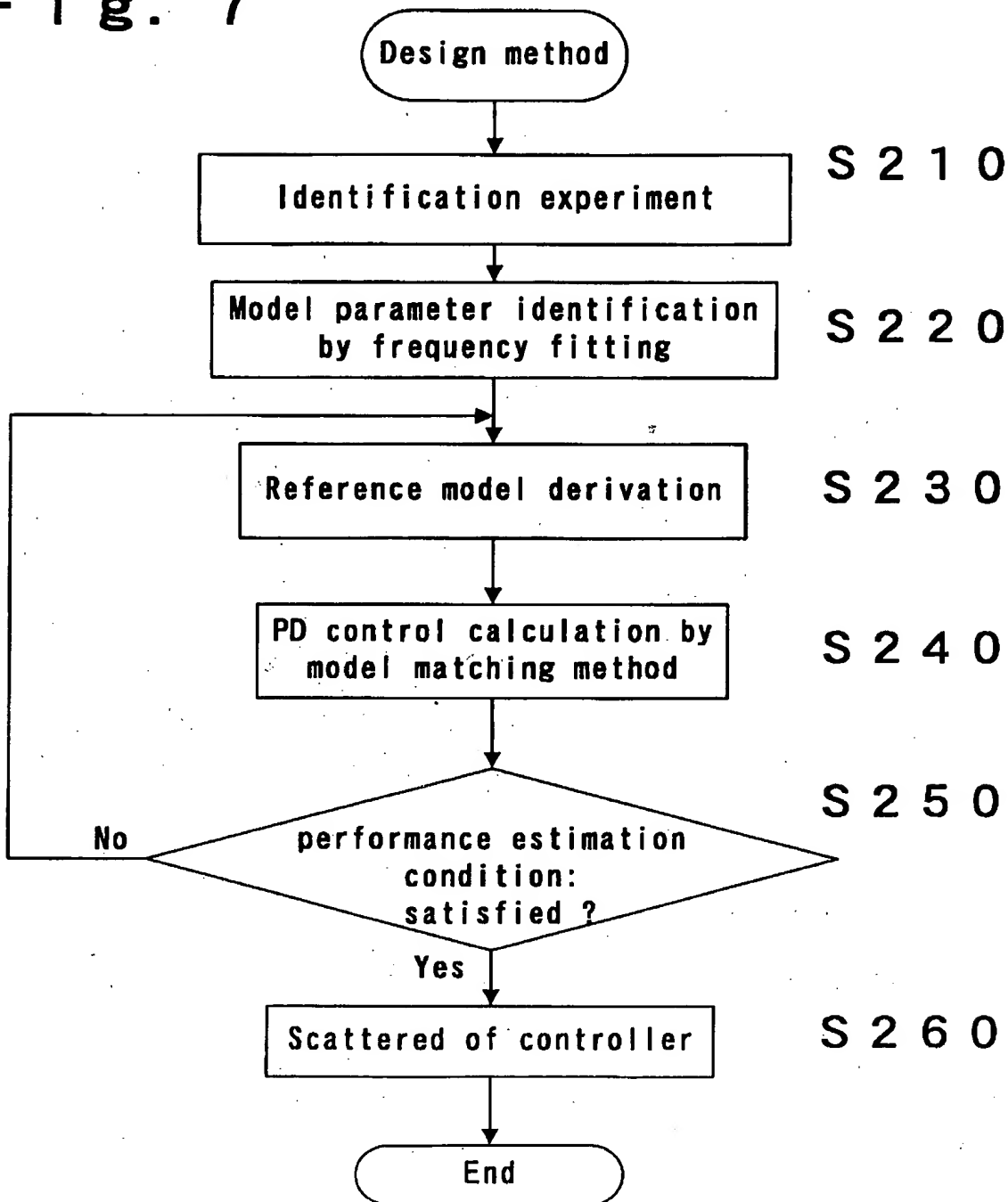


Fig. 8

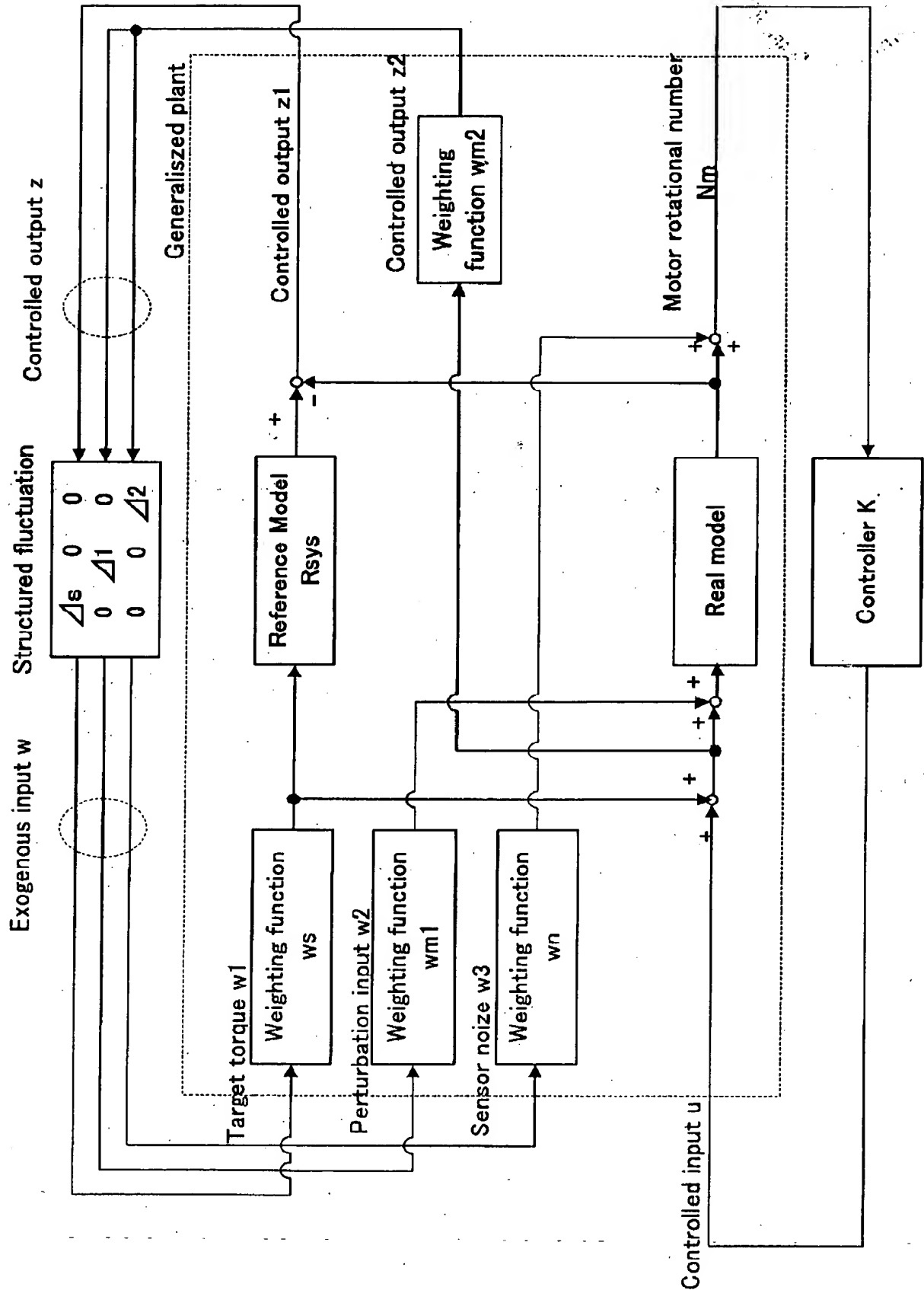


Fig. 9 (a)

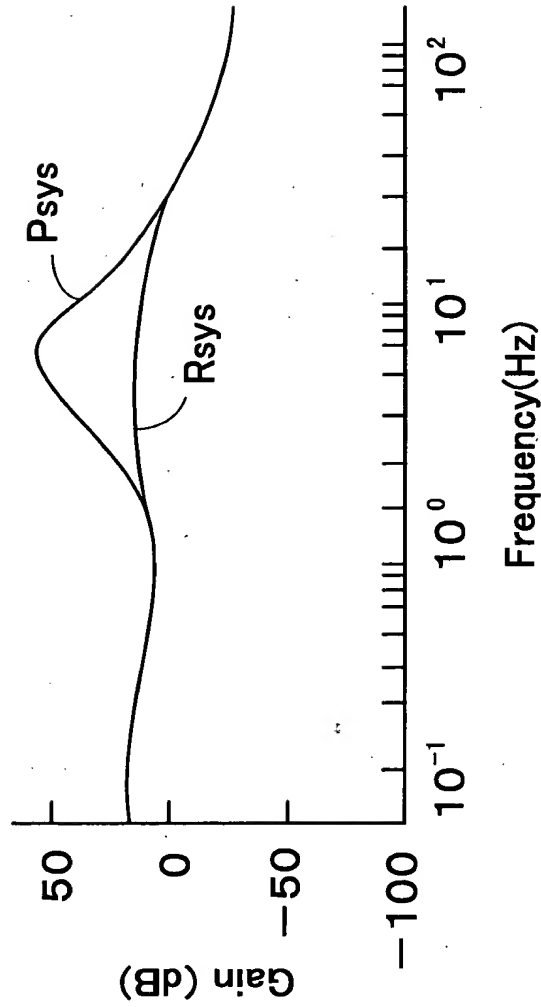
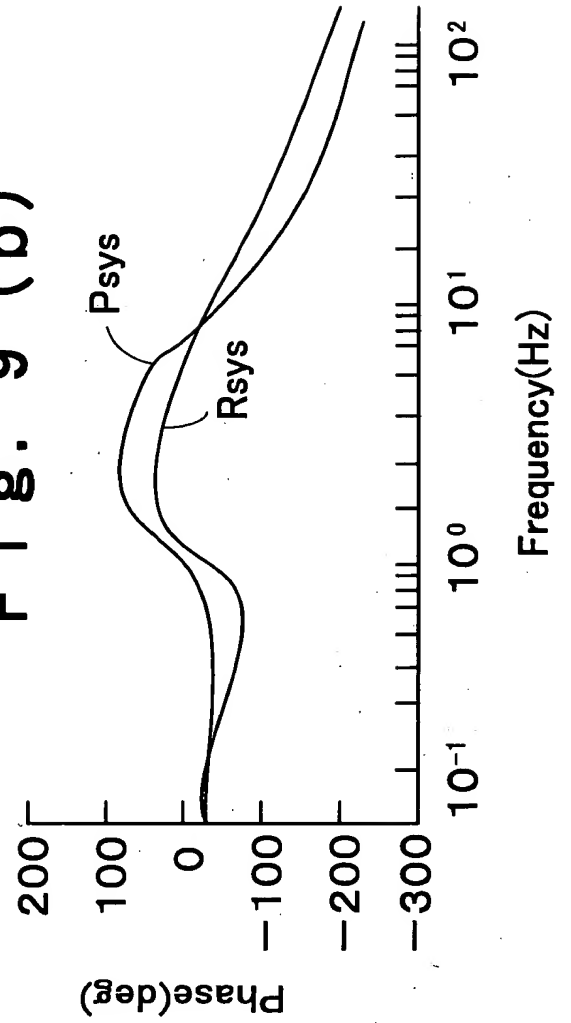


Fig. 9 (b)





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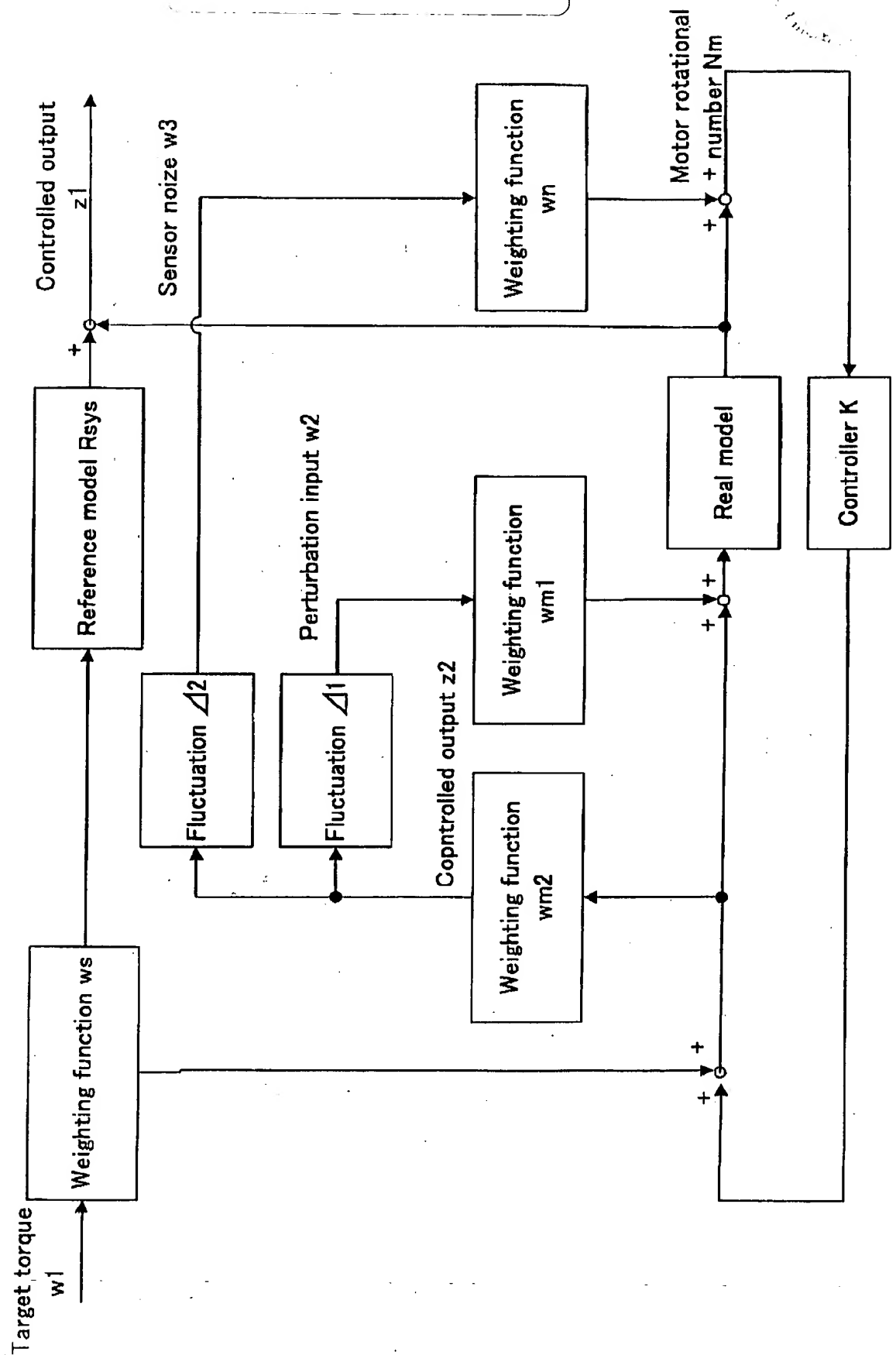


Fig. 12

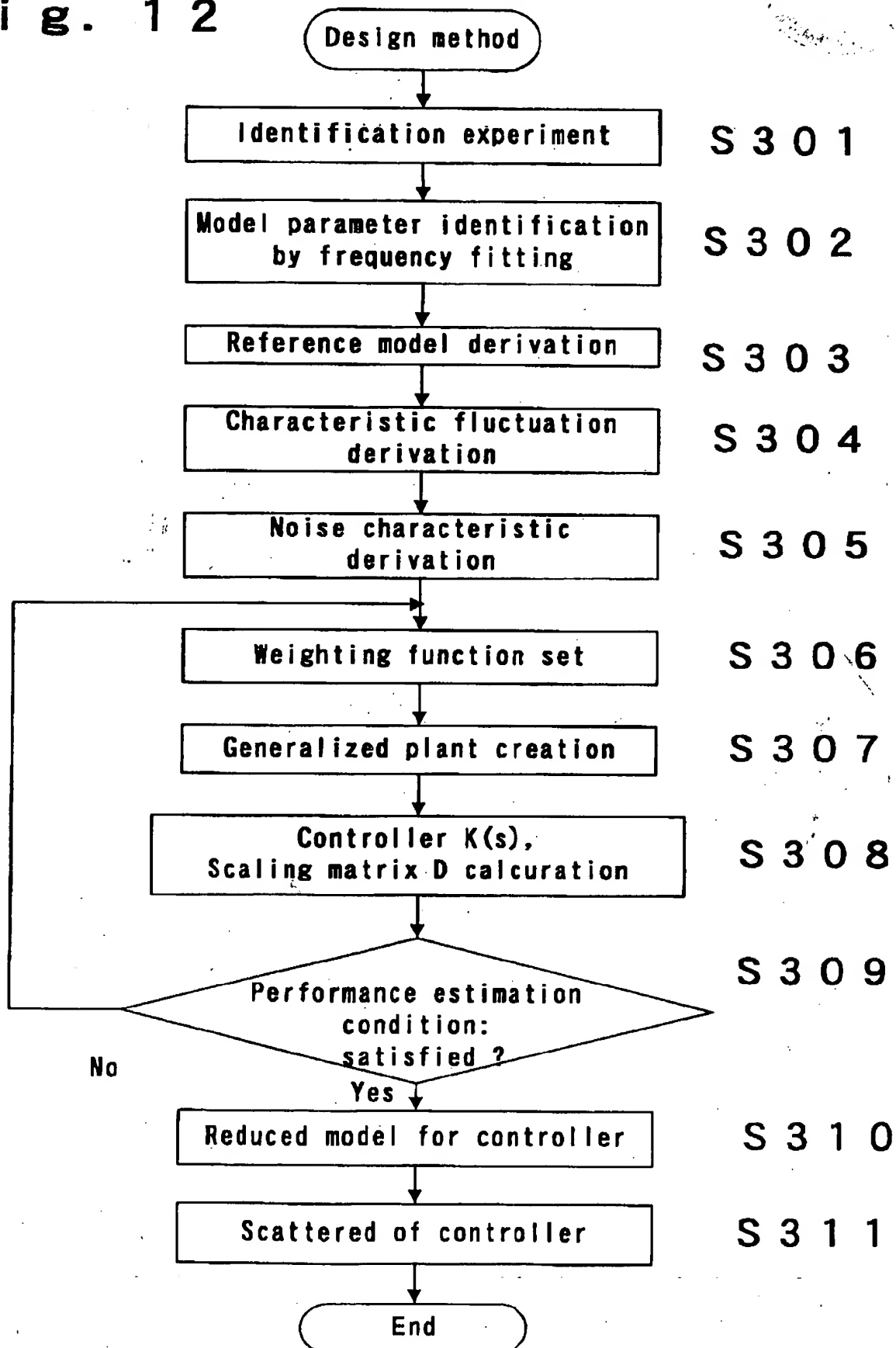


Fig. 13

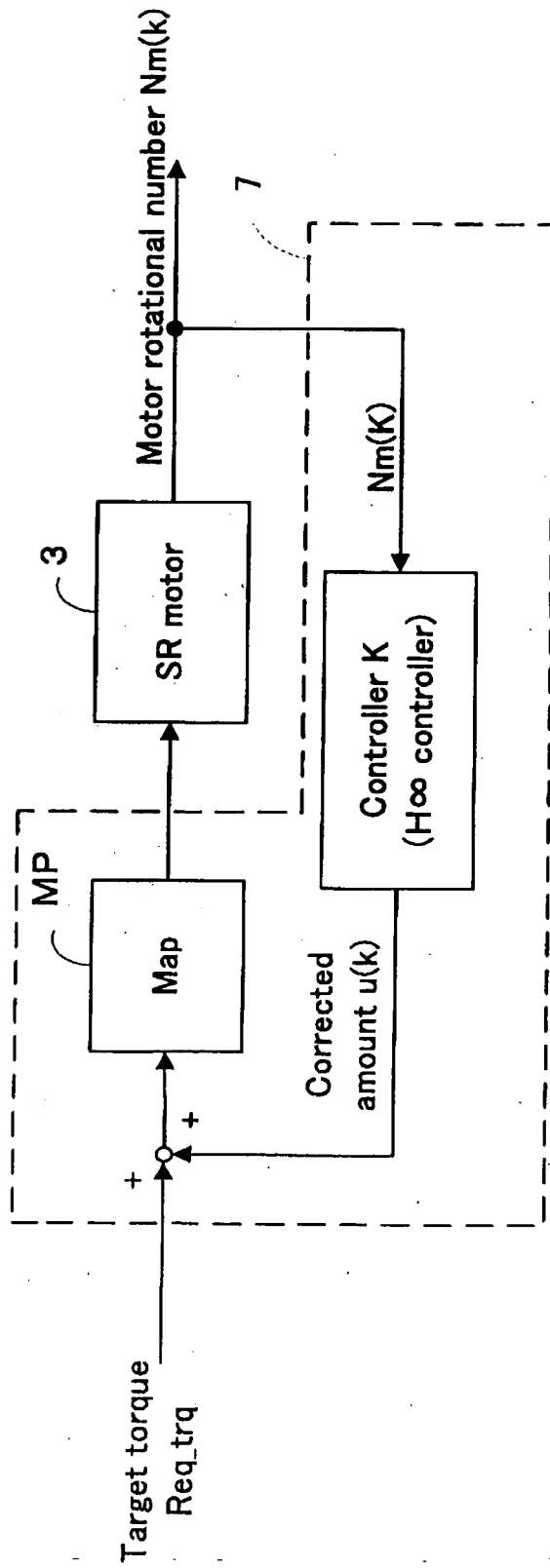


Fig. 16

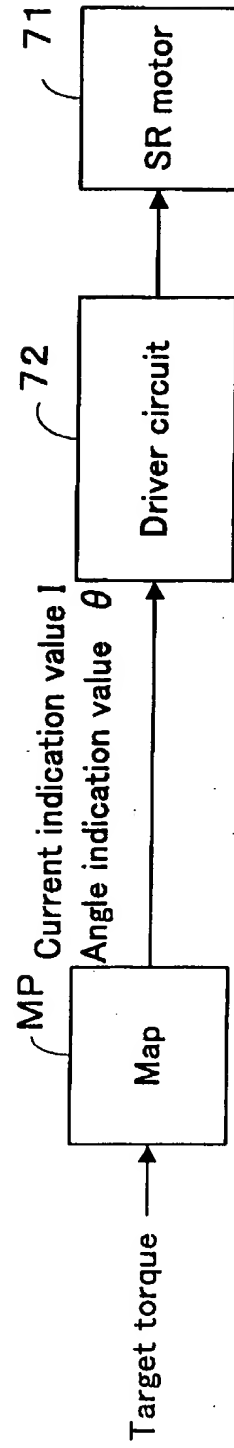


Fig. 14

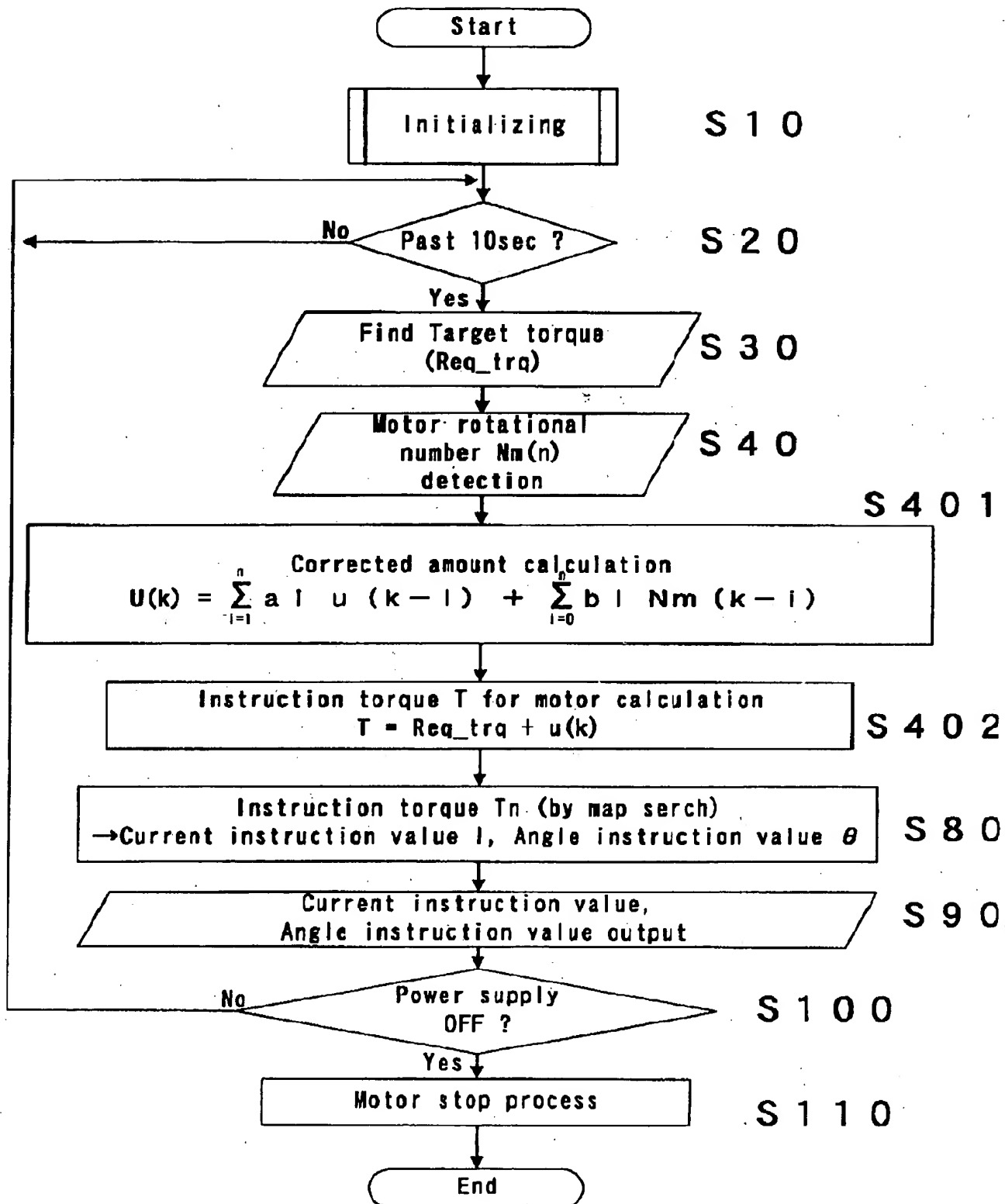
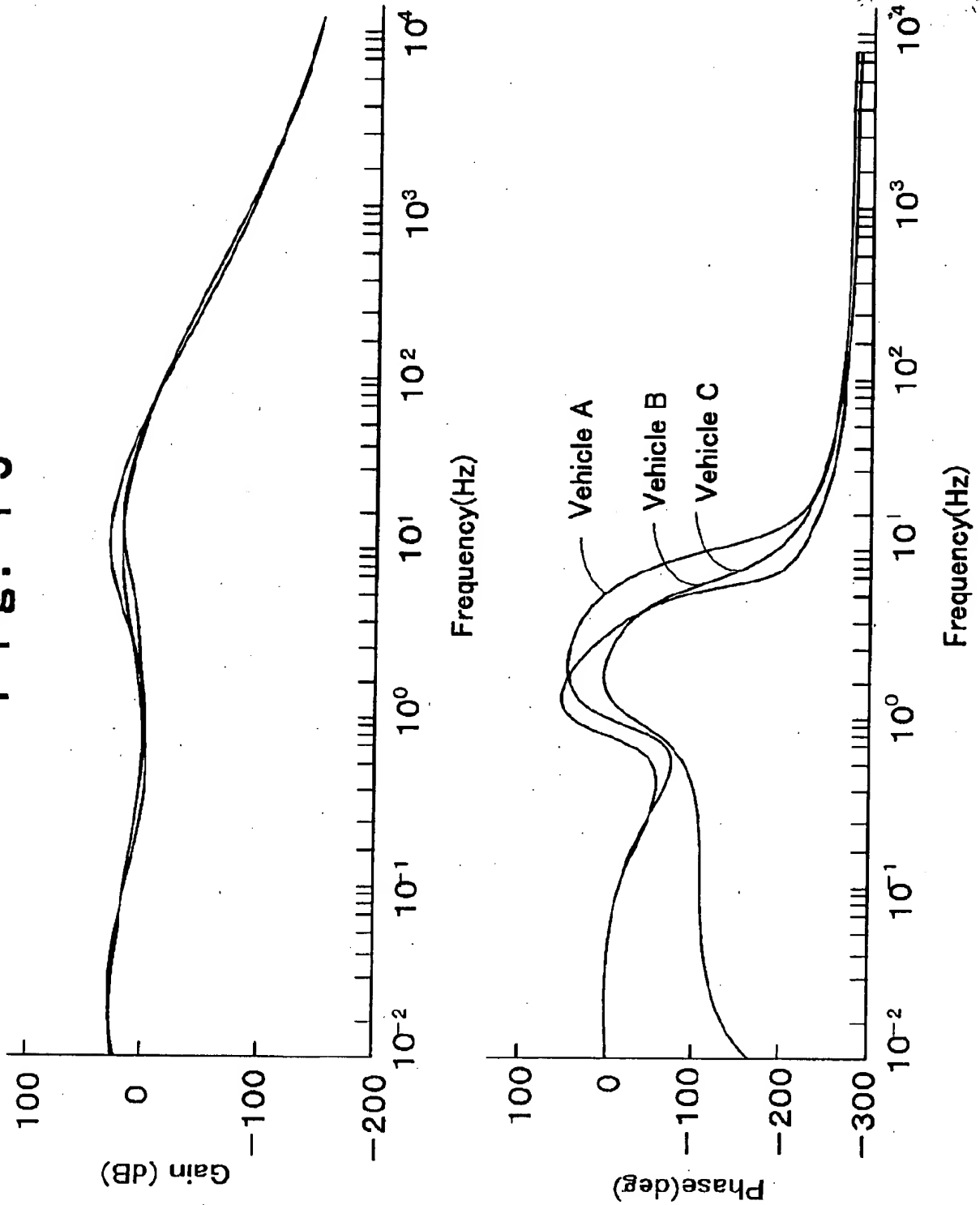


Fig. 15



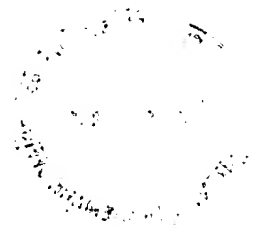
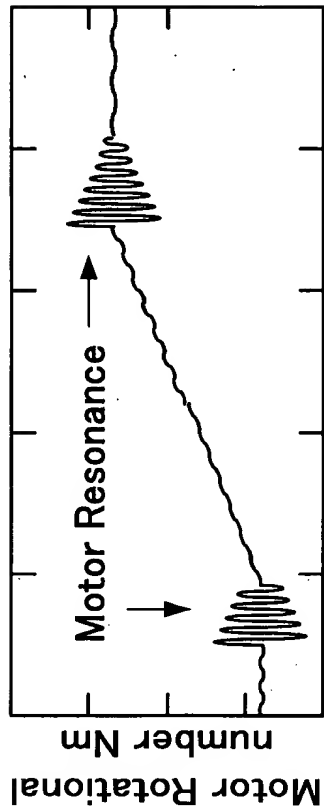
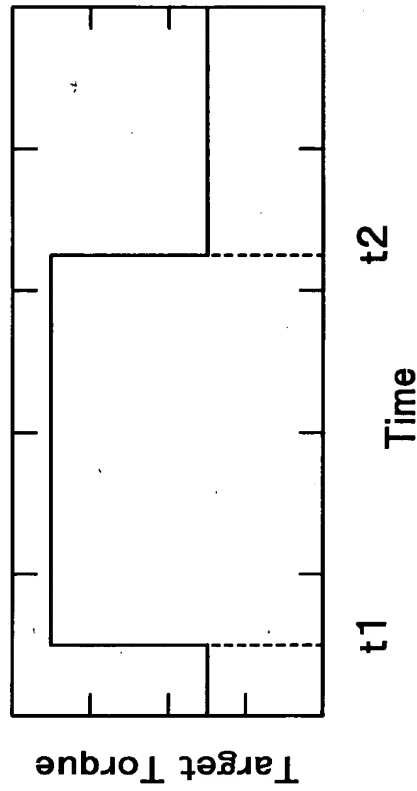


Fig. 17 (a)



(a)

Fig. 17 (b)



(b)

Fig. 18 (a)

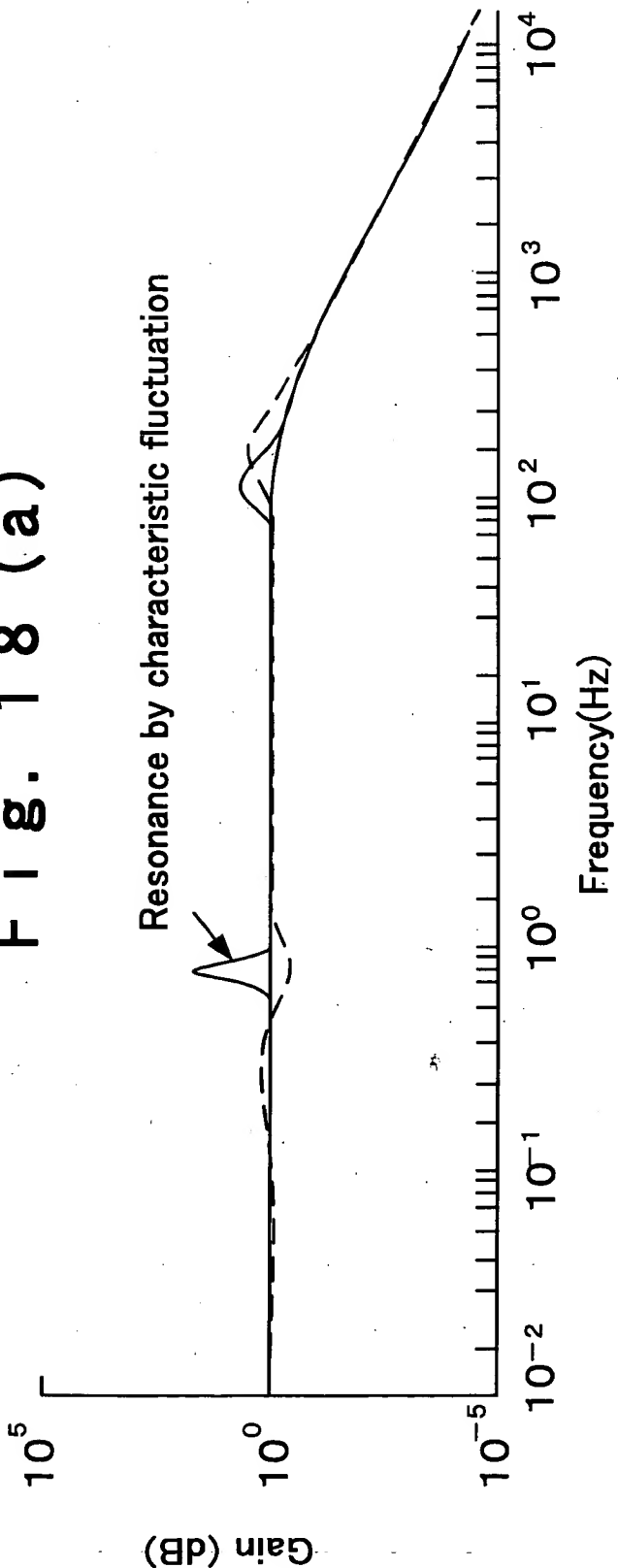


Fig. 18 (b)

